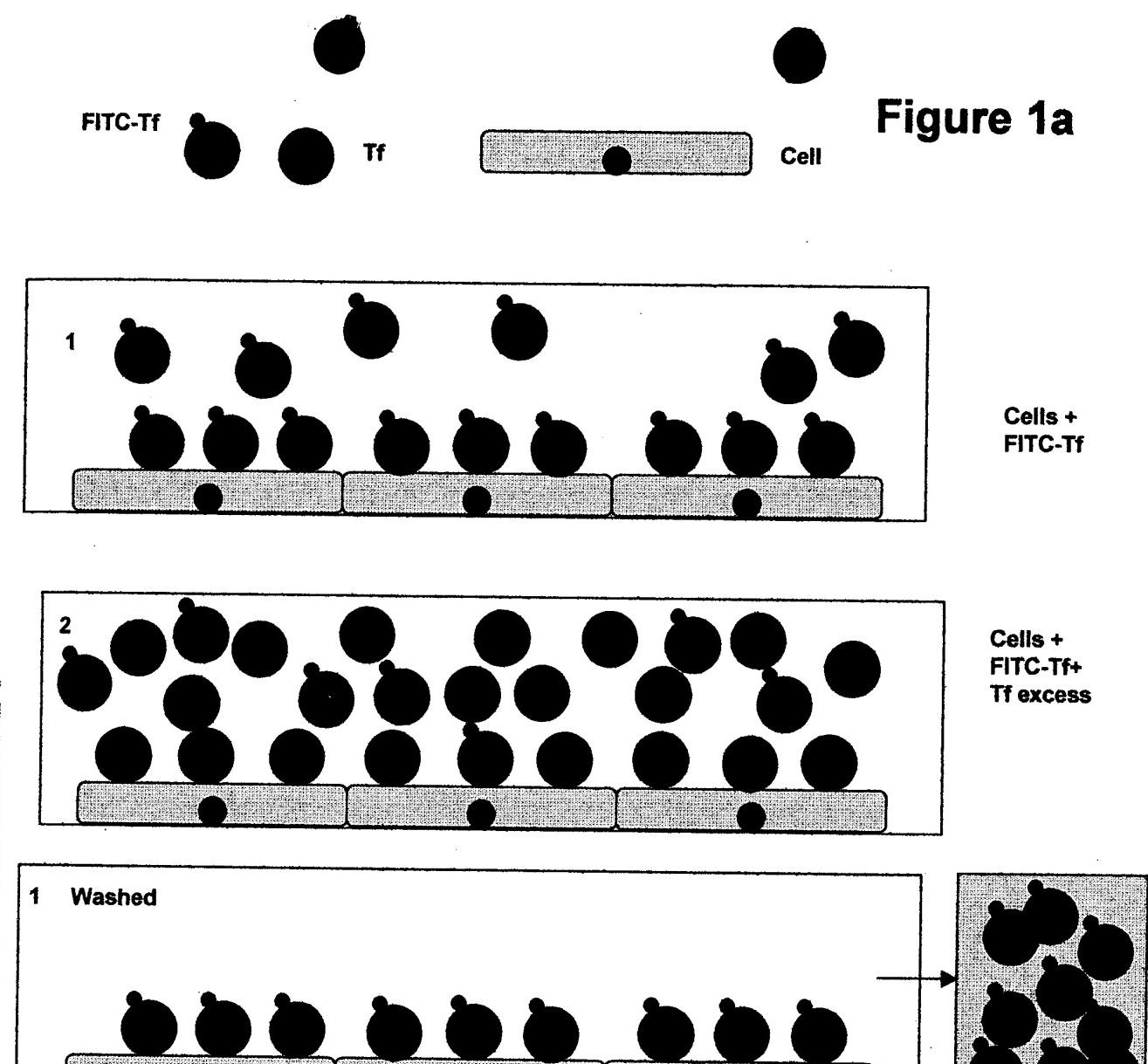


**Figure 1a**

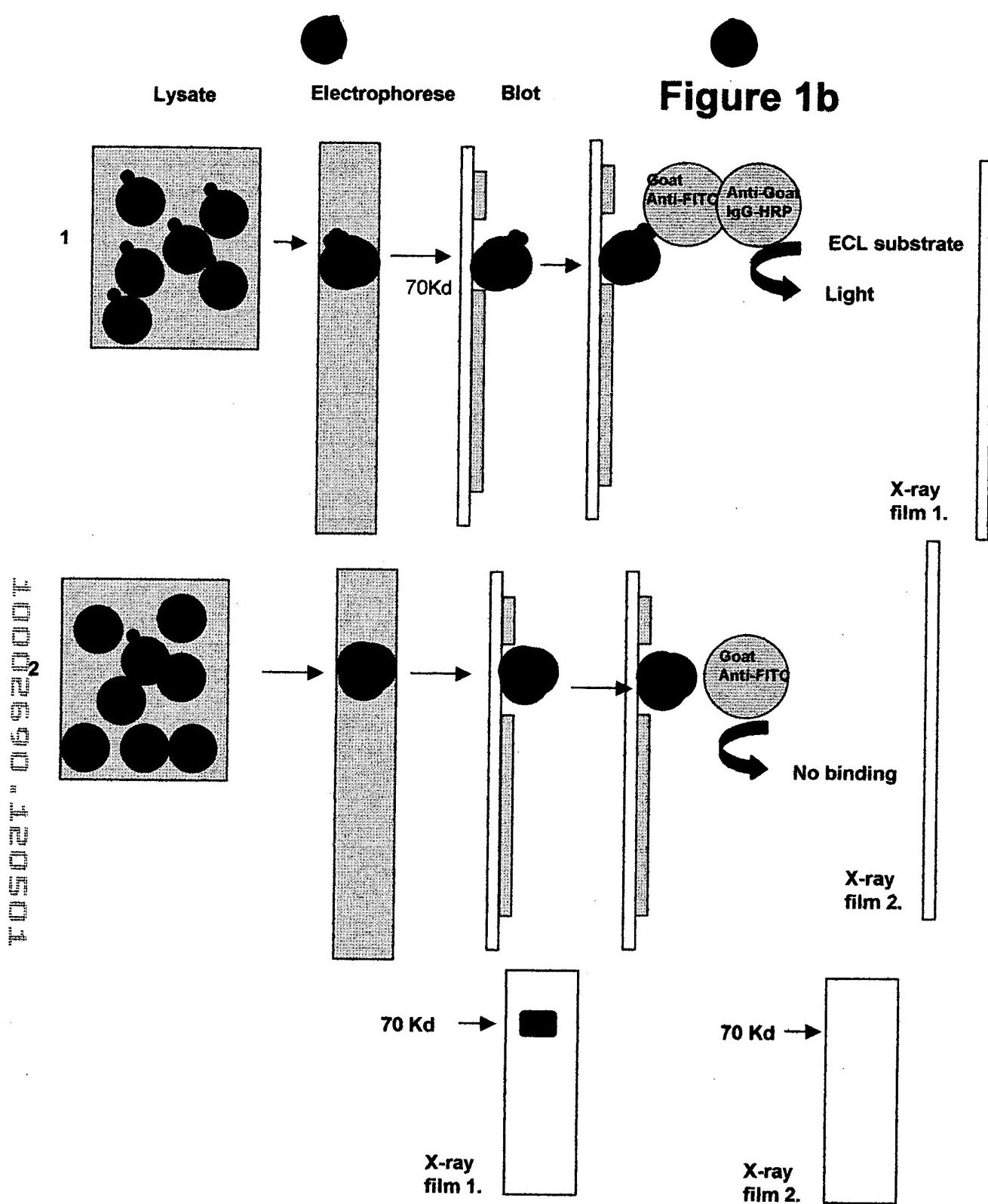


Inventor: Philip Cavanaugh. Title: Method for the Detection and Measurement of Hapten-Conjugated Biological Binding Entities by Western and Dot Blot using Anti-Hapten Antibodies. Text: 28 pages total. Figures: 12 pages total.

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Lysates

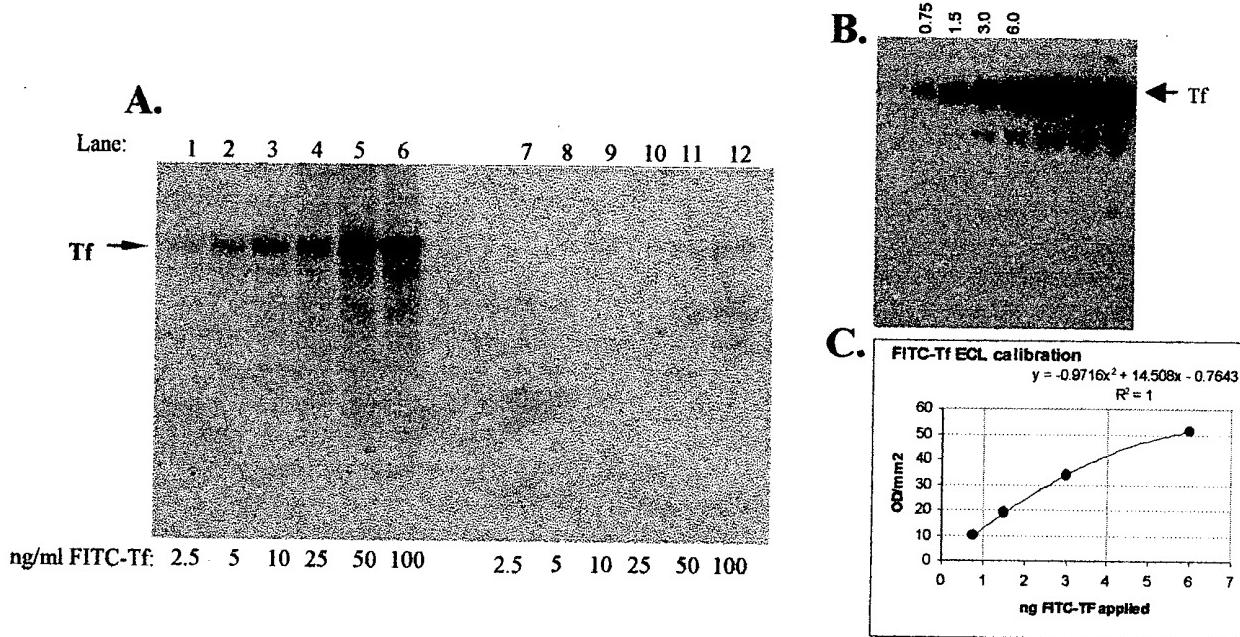
**Figure 1b**



**Inventor:** Philip Cavanaugh. **Title:** Method for the Detection and Measurement of Hapten-Conjugated Biological Binding Entities by Western and Dot Blot using Anti-Hapten Antibodies. **Text:** 28 pages total. **Figures:** 12 pages total.

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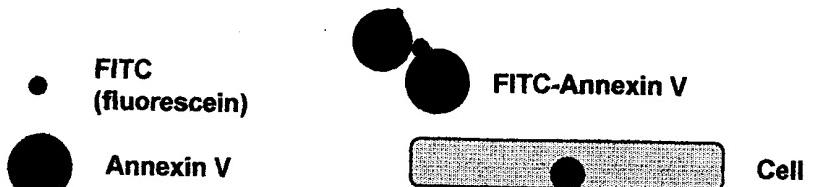
10002690-12050



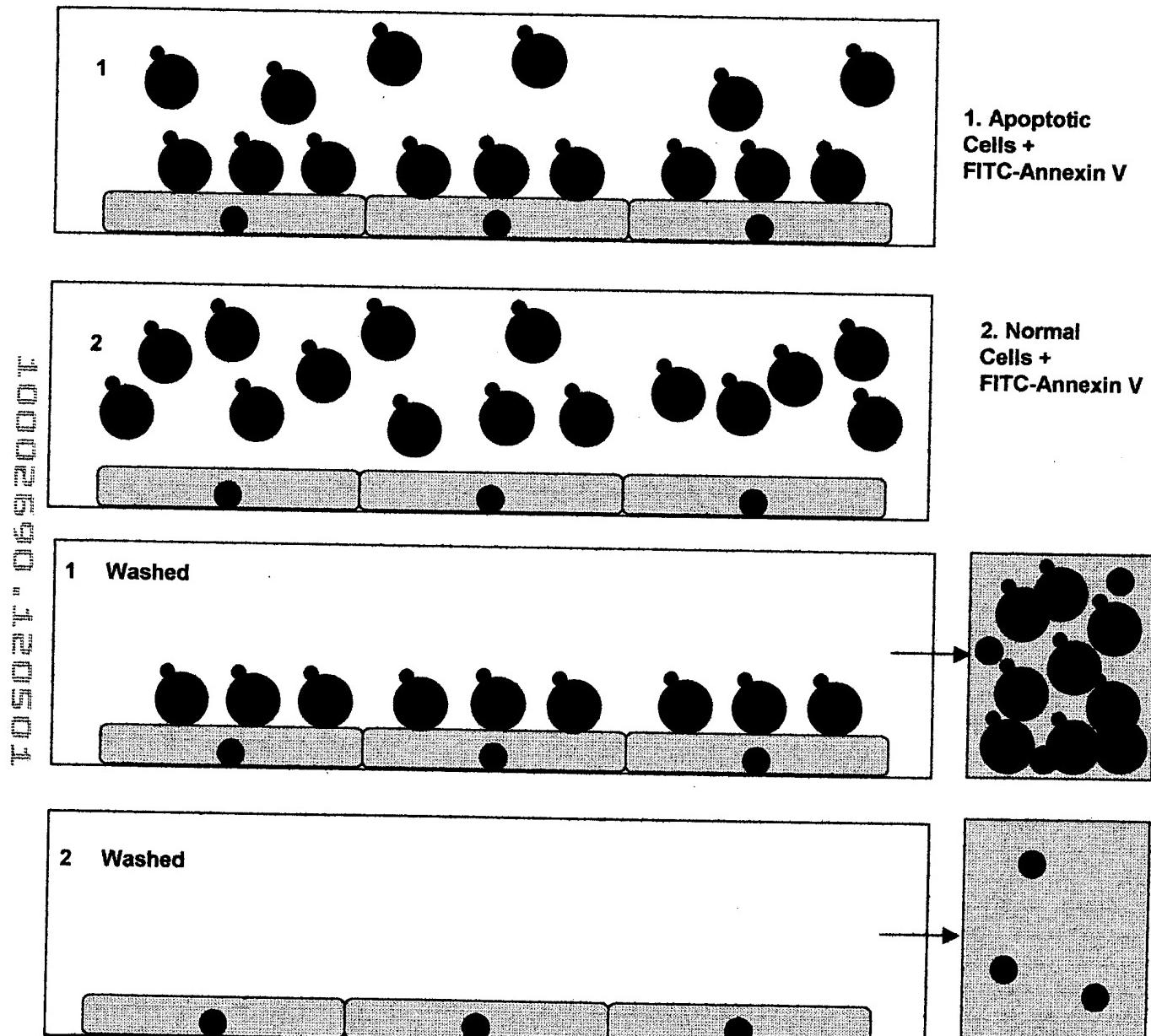
**Figure 2.** A. Measurement of FITC-transferrin (FITC-Tf) binding to MTLn2/TfR cells. Cells at 50–60% confluence growing in 12 well plates were serum-starved, then treated at 4°C with increasing levels of FITC-Tf. After 2h, cells were washed, lysed, and equal cell equivalents were electrophoresed, blotted, incubated with goat anti-FITC, then with anti-goat-HRP and an HRP ECL substrate. The blot was then analyzed using the BIO-RAD fluor S Multiimager. Lanes 1-6 = lysates from cell exposed to the concentration of FITC-TF listed below the blot. Lanes 7-12 = lysates from cells treated as in 1-6, but also with a 200-fold excess of unconjugated Tf. B. Results from a blot treated as in A but loaded with pure FITC-TF standards in the amounts (in ng) indicated on the top. C. Analysis of the bands from B, indicating the type of standard curves achievable.

**Inventor:** Philip Cavanaugh. **Title:** Method for the Detection and Measurement of Hapten-Conjugated Biological Binding Entities by Western and Dot Blot using Anti-Hapten Antibodies. **Text:** 28 pages total. **Figures:** 12 pages total.

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**Figure 3a**

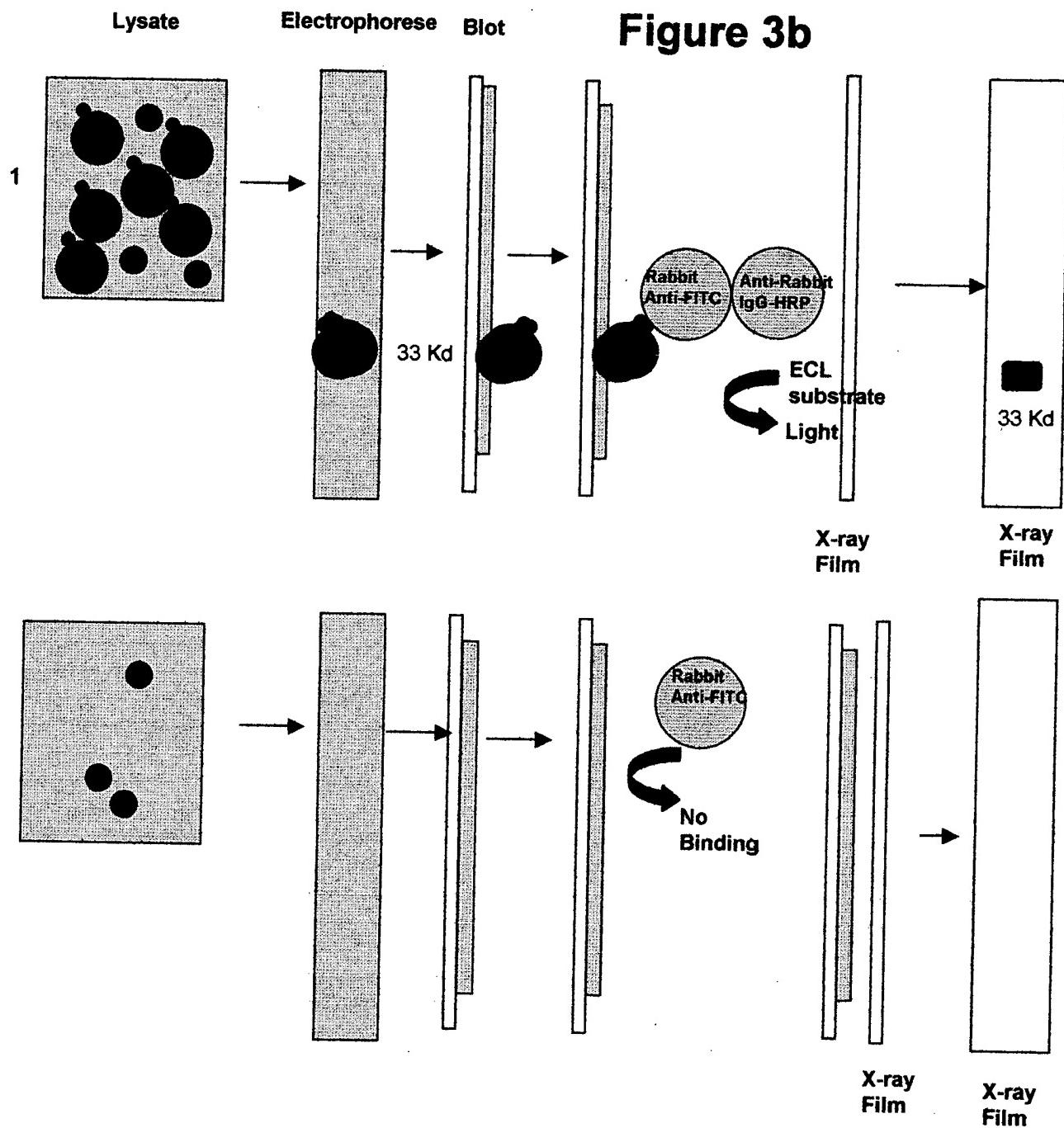


**Lysates**

Inventor: Philip Cavanaugh. Title: Method for the Detection and Measurement of Hapten-Conjugated Biological Binding Entities by Western and Dot Blot using Anti-Hapten Antibodies. Text: 28 pages total. Figures: 12 pages total.

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**Figure 3b**



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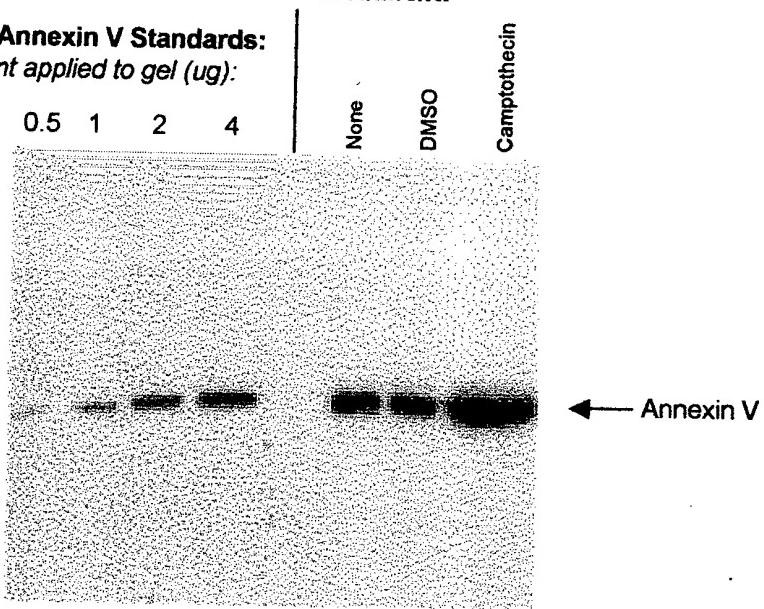
**Figure 4**

**A.**

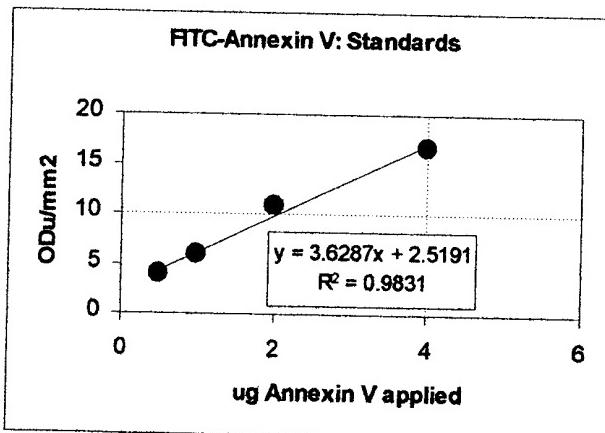
**MTLn3 Cell Lysates:**  
( 8ug cell protein per well )  
**Treatment:**

**FITC-Annexin V Standards:**  
amount applied to gel (ug):

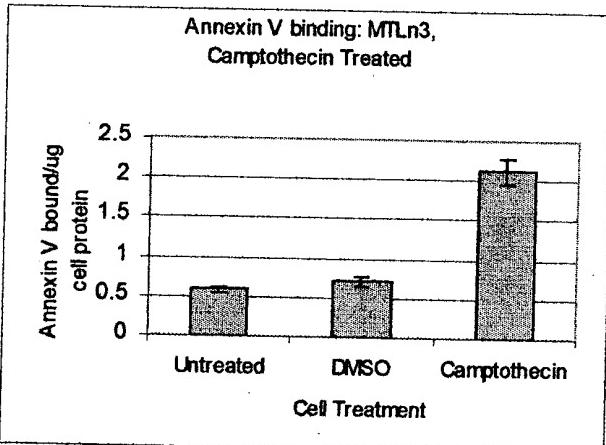
0.5    1    2    4



**B.**



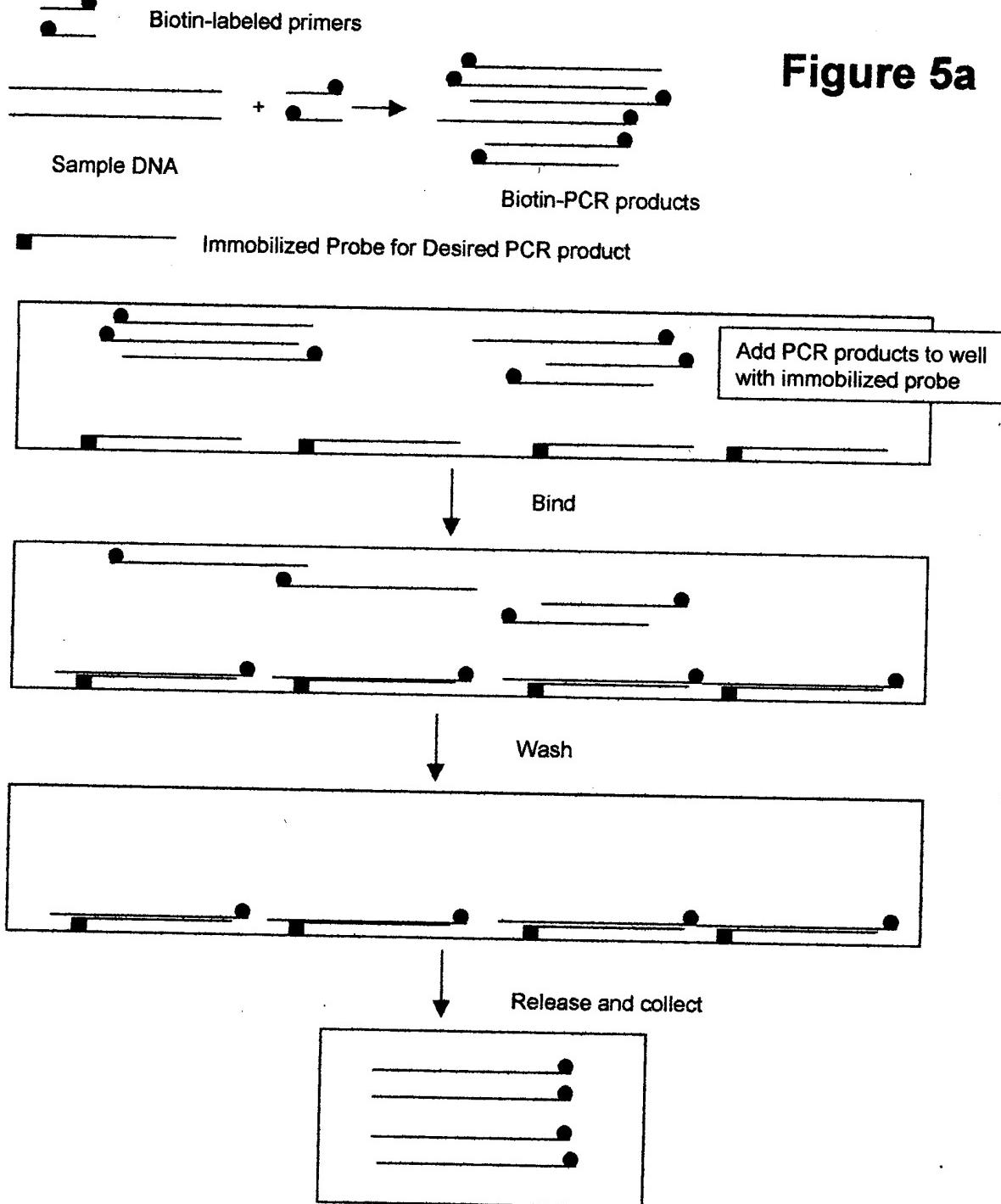
**C.**



Inventor: Philip Cavanaugh. Title: Method for the Detection and Measurement of Hapten-Conjugated Biological Binding Entities by Western and Dot Blot using Anti-Hapten Antibodies. Text: 28 pages total. Figures: 12 pages total.

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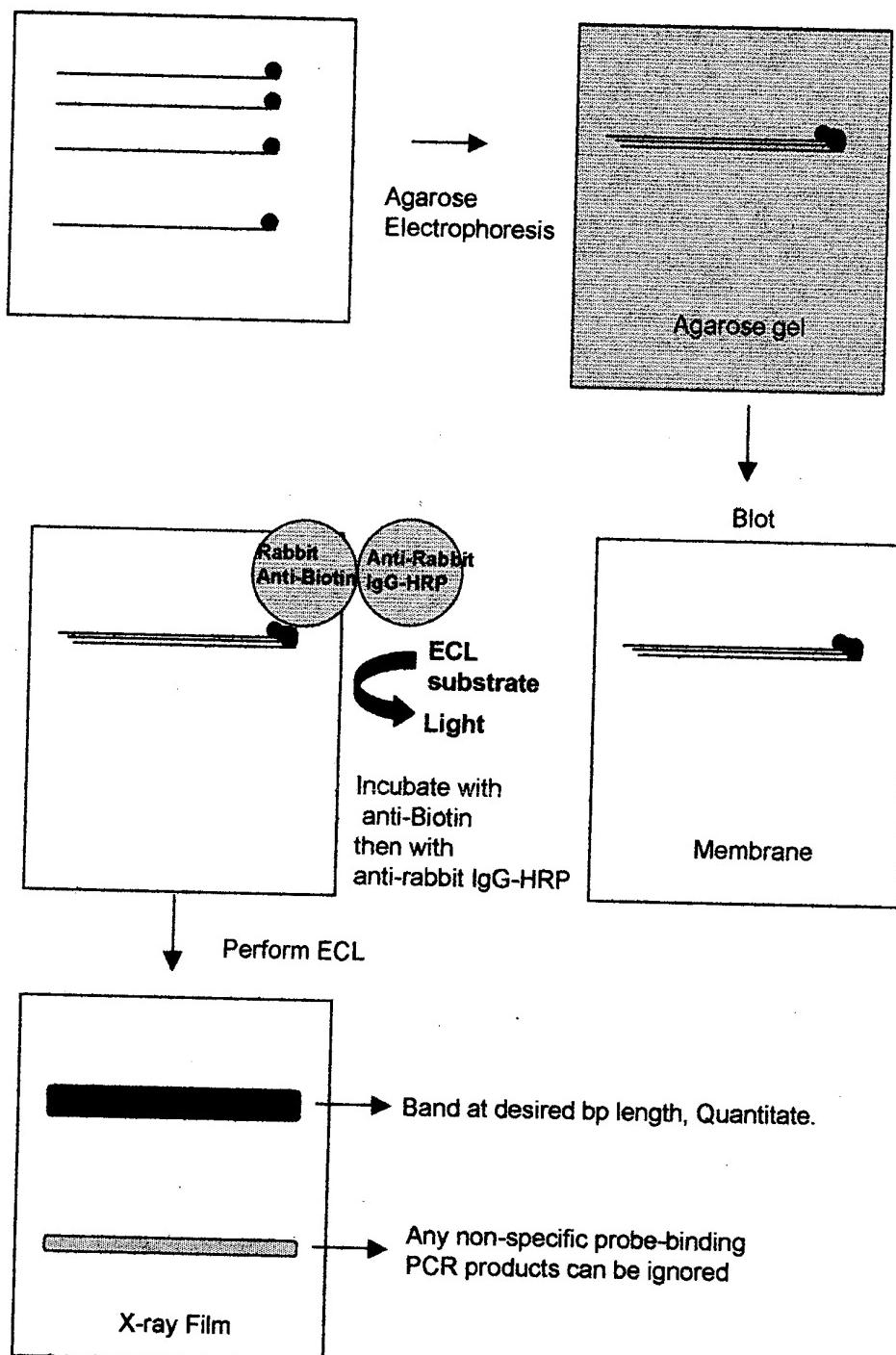
**Figure 5a**



Inventor: Philip Cavanaugh. Title: Method for the Detection and Measurement of Hapten-Conjugated Biological Binding Entities by Western and Dot Blot using Anti-Hapten Antibodies. Text: 28 pages total. Figures: 12 pages total.

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**Figure 5b**

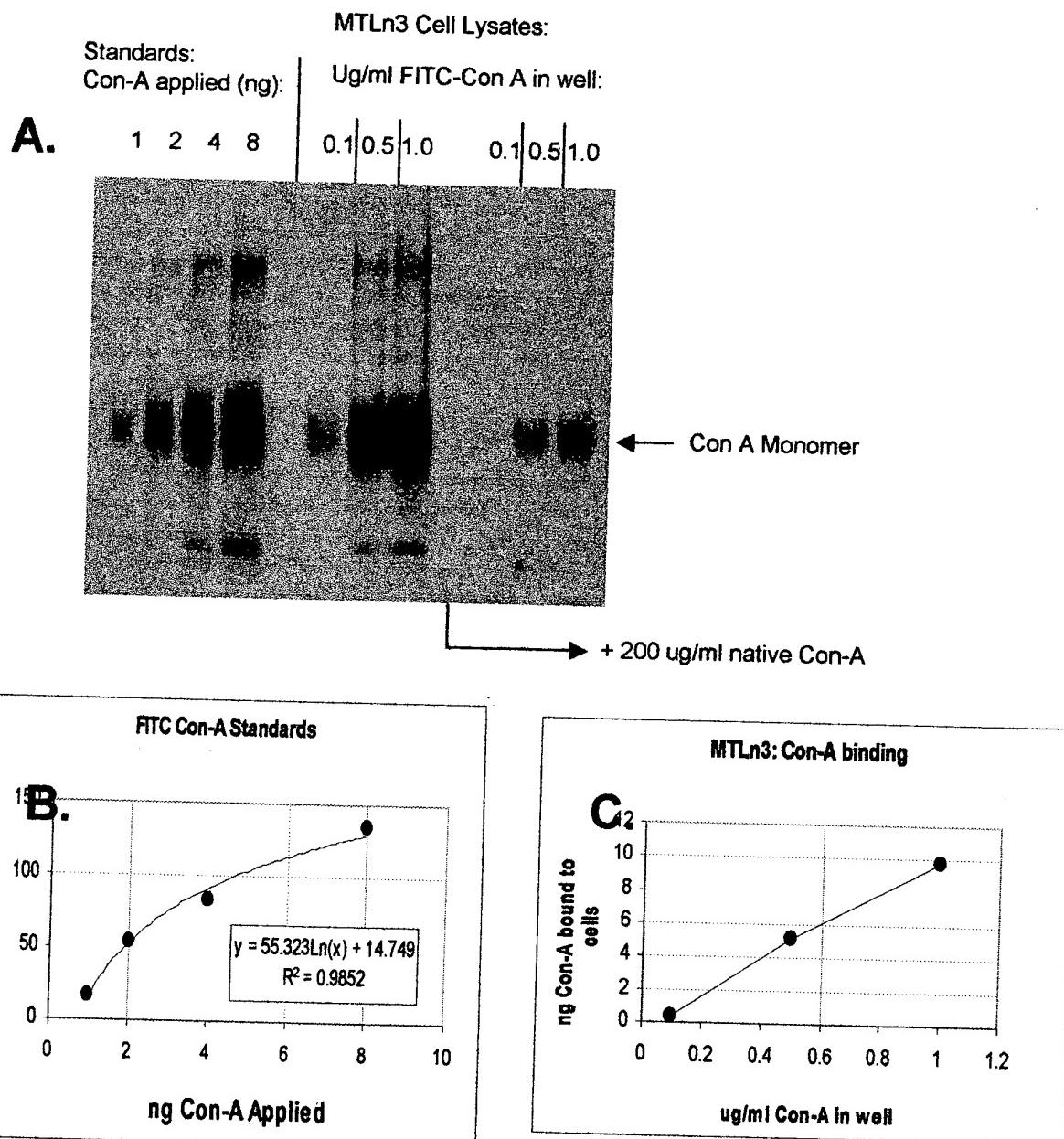


Inventor: Philip Cavanaugh. Title: Method for the Detection and Measurement of Hapten-Conjugated Biological Binding Entities by Western and Dot Blot using Anti-Hapten Antibodies. Text: 28 pages total. Figures: 12 pages total.

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**Figure 6.**

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Inventor: Philip Cavanaugh. Title: Method for the Detection and Measurement of Hapten-Conjugated Biological Binding Entities by Western and Dot Blot using Anti-Hapten Antibodies. Text: 28 pages total. Figures: 12 pages total.

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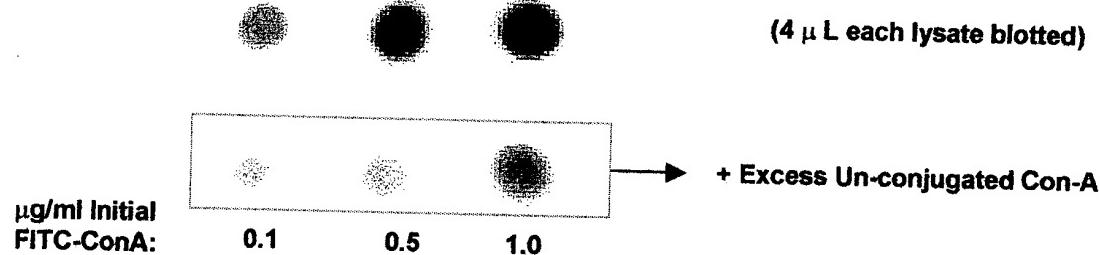
Figure 7

A. Standards:

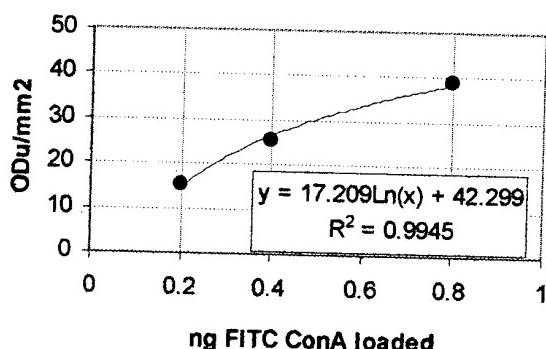
Ng FITC-Con A /Standard:



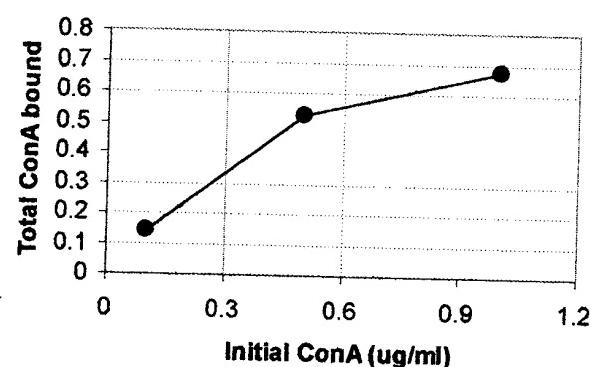
B. MTLn3 Cell Lysates:



C. FITC ConA Dot Blot: Standards



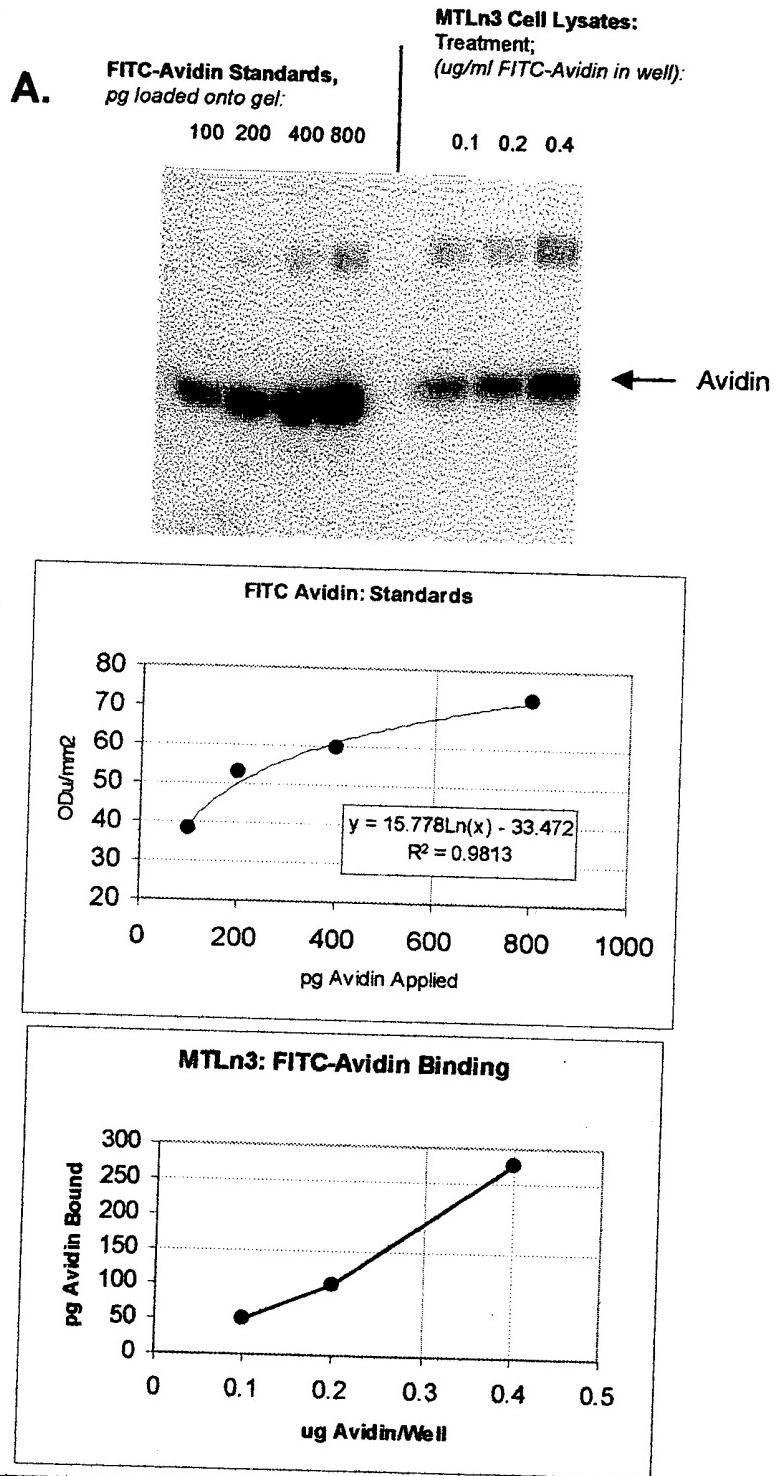
D. MTLn3: FITC-ConA Binding (Dot Blot)



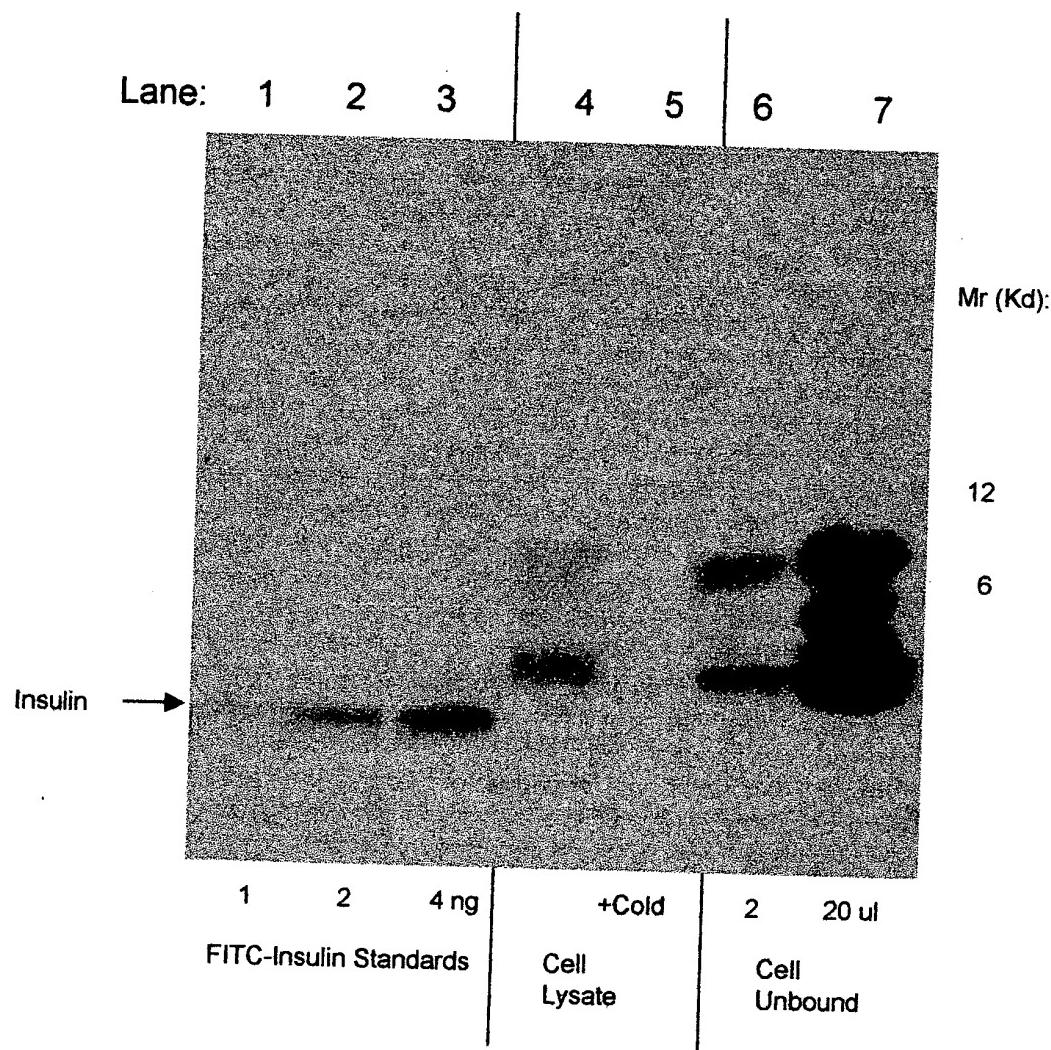
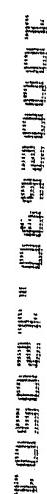
Inventor: Philip Cavanaugh. Title: Method for the Detection and Measurement of Hapten-Conjugated Biological Binding Entities by Western and Dot Blot using Anti-Hapten Antibodies. Text: 28 pages total. Figures: 12 pages total.

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**Figure 8**



**Inventor:** Philip Cavanaugh (Phone: 949-654-8979 or 313-538-2587). **Title:** Method for the Detection and Measurement of Hapten-Conjugated Biological Binding Entities by Western and Dot Blot using Anti-Hapten Antibodies. **Text:** 28 pages total. **Figures:** 12 pages total.



**Figure 9: FITC-Insulin binding by K562 cells.**

**Inventor:** Philip Cavanaugh (Phone: 949-654-8979 or 313-538-2587). **Title:** Method for the Detection and Measurement of Hapten-Conjugated Biological Binding Entities by Western and Dot Blot using Anti-Hapten Antibodies. **Text:** 28 pages total. **Figures:** 12 pages total.

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